

**TECHNICAL SUPPORT FOR THE  
CENTER FOR ENTERPRISE INTEGRATION**

**DELIVERY ORDER FOR  
GCCS DATABASE MIGRATION**

**IMRAS/NPG  
SOFTWARE REQUIREMENTS SPECIFICATION  
29 MARCH 1996**

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## **SECTION 1 - SCOPE**

### **1.1 IDENTIFICATION**

The purpose of this document is to specify the software requirements for developing the Individual Manpower Requirements and Availability System (IMRAS). This system is being developed for the Global Command and Control System (GCCS) Database Migration under Contract Number DCA100-94-D-0016.

### **1.2 OVERVIEW**

On 30 October 1992, Systems Research and Applications (SRA) Corporation delivered the IMRAS Preliminary Software Requirements Specification (SRS) to the Joint Staff. This document specified the interface and capability requirements for the individual personnel module of the Joint Operation Planning and Execution System (JOPES). These requirements grew primarily out of the Desert Shield and Desert Storm experience.

In March 1995, under Contract Number DCA100-94-D-0016, a GCCS Database task was begun that included migrating the Non-unit Personnel Generator (NPG) capability from the World Wide Military Command and Control System (WWMCCS) mainframe computer to the GCCS server. Since NPG requirements also exist in the IMRAS SRS, NPG was migrated using the IMRAS SRS as a guide.

NPG was created using Sybase's Gain Momentum 4GL development environment and was delivered to the Government on 4 August 1995. It includes Filler and Replacement requirements analysis, Personnel Working File build and edit functions, and Non-unit Time-Phased Force and Deployment Data (TPFDD) build and edit functions. NPG functions access data in Medical Planning and Execution System (MEPES) tables and allows users to merge Non-unit TPFDDs into existing Operation Plans (OPLANs) on the GCCS database.

### **1.3 DOCUMENT OVERVIEW**

In January 1996, a new task began under Contract Number DCA100-94-D-0016 to validate the requirements in the IMRAS SRS and develop IMRAS accordingly. This document contains the original, modified, and new requirements obtained as a result of the validation, and is organized as follows:

Section 1 contains the IMRAS overview.

Section 2 identifies the documents referenced.

Section 3 contains the IMRAS Engineering Requirements.

Section 4 contains the Test Requirements.

Section 5 is the list of terms, abbreviations, and acronyms that are used in this document.

## SECTION 2 - REFERENCED DOCUMENTS

The documents listed below were referenced when preparing this manual. Should a conflict occur between these documents and the contents of the IMRAS SRS, the SRS shall take precedence.

### 2.1 SPECIFICATIONS

*User Interface Specifications for the Defense Information Infrastructure (DII)*, Version 2, Preliminary Draft, Defense Information Systems Agency (DISA), December 31, 1995.

*Preliminary Software Requirements Specification for the Individual Manpower Requirements and Availability System (IMRAS)*, SRA Corporation, Arlington, VA, 30 October 1992.

*Individual Manpower Requirements and Availability System Logical Data Model (LDM)*, SRA Corporation, Arlington, VA, March 1992.

### 2.2 OTHER PUBLICATIONS

*MEPES Users' Manual*, SRA Corporation, Arlington, VA, March 1996.

*MEPES Maintenance Manual*, SRA Corporation, Arlington, VA, September 1995.

*NPG Users' Manual*, SRA Corporation, Arlington, VA, March 1996.

*NPG Maintenance Manual*, SRA Corporation, Arlington, VA, November 1995.

*Software Development Plan*, SRA Corporation, Arlington, VA, February 1996.

## SECTION 3 - ENGINEERING REQUIREMENTS

This section of the GCCS IMRAS SRS contains the general and capability requirements for the IMRAS capabilities. Most of these requirements were derived from the original JOPES IMRAS SRS developed in October 1992. The rest were developed as a result of hardware and software platform changes and changes in the Joint Staff's needs.

Detailed technical information concerning IMRAS external interface requirements will be published in an Interface Requirements Specification (IRS). Specifically, the IRS will identify the data elements that each Services' system will provide and describe the requirements for obtaining the data. For example, some systems may not allow direct access to their databases, but will provide Compact Discs (CDs) periodically or through regular distribution of data via E-mail.

Until the external interfaces are defined, the original IMRAS Logical Data Model (LDM) will be used to allow the preliminary development of the IMRAS capabilities, based on the requirements in this SRS. Doing this will enable SRA to develop the IMRAS capability infrastructure (application code) using the data element descriptions in the LDM, replacing those data elements that have GCCS counterparts. This includes coding the access mechanisms to the GCCS Core Database, MEPES tables, and IMRAS tables. The capabilities will be complete when data from the external interfaces is stored in the GCCS database.

### 3.1 IMRAS GENERAL REQUIREMENTS

The following requirements specify the platform and external interfaces that IMRAS will use.

IMRAS **shall(1)** operate on the Sun Solaris 2.4 operating system.

SRA **shall(2)** extend the NPG application to include all validated requirements from the IMRAS SRS.

SRA **shall(3)** develop IMRAS using the Gain Momentum development environment.

IMRAS **shall(4)** obtain the data it needs from MEPES tables, IMRAS tables, and GCCS Core tables in the GCCS Database.

IMRAS external interfaces **shall(5)** include the following:

Joint Service and Department of Defense (DOD) Systems

Defense Manpower Data Center (DMDC)

Global Transportation Network - In Transit Visibility System (GTN-ITV)

Joint Personnel Asset Visibility (JPAV) System



Army Systems

Total Army Personnel Data Base (TAPDB)

Standard Installation/Division Personnel System 3 (SIDPERS 3)

Navy Systems

Navy Manpower Data Accounting System (NMDAS)

Officer Personnel Information System (OPINS)

Navy Enlisted System (NES)

Navy Civilian Personnel Data System (NCPDS)

Air Force Systems

Contingency Operations/Mobility Planning and Execution System (COMPES)

Command Manpower Data System (CMDS)

Marine Corps Systems

Unit Diary/Marine Integrated Personnel System (UD/MIPS)

Table of Manpower Requirements (T/MR)

Reserve Manpower Management and Pay System (REMMPS)

Coast Guard Systems

Personnel Management Information System (PMIS)

Personnel Allowance System (PAL)

## **3.2 IMRAS CAPABILITY REQUIREMENTS**

### **3.2.1 Session Defaults**

Most IMRAS functional capabilities are specific to OPLANs and Services. In many cases the IMRAS capabilities are also dependent on time increments and service components. Session defaults are those data items that are presumed to be constant throughout an IMRAS session. With few exceptions (noted in the requirements themselves), users will not be permitted to change the defaults of their current session.

The Session Defaults capability was previously developed for NPG. The requirements below reflect modifications to that capability.

IMRAS Session Defaults **shall(1)** provide a service component pick list for each service.

IMRAS **shall(2)** allow the user to choose only one service component from the pick list for the current session.

Session Defaults

File Personnel Situation Monitoring Joint Manpower Tools Utilities Help

UNCLASSIFIED

Service: Marines

Component: Regular

Plan: 096KS

Time Period:

Start Day: 0

Stop Day: 180

Must be an integer between 0 and 180, inclusive, and cannot be less than Start Day.

UNCLASSIFIED

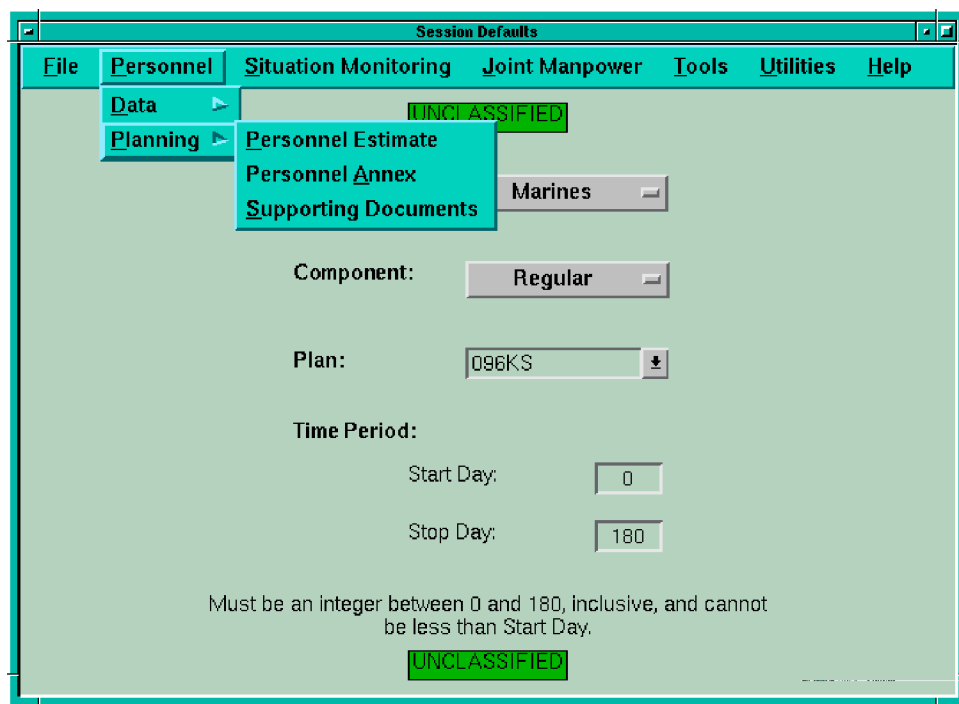
Figure 3-1 is an example of the initial IMRAS Session Defaults screen.

Figure 3-1: IMRAS Session Defaults.

### 3.2.2 Planning on

Personnel application allows the user to view, delete estimates, annexes supporting documents to the specified Defaults. display either document

preformatted templates. Figure 3-2 depicts the menu hierarchy for obtaining the Personnel Planning screens.



### Personnel Applicati

The Planning application allows create, modify or personnel personnel a n d document pertaining OPLAN in Session T h e consists of existing s or

Figure 3-2: Personnel Planning Menu Hierarchy.

**3.2.2.1 Personnel Estimate.** The purpose of the Personnel Estimate is to support the commander's estimate and provide a baseline from which to make operational decisions. The Personnel Estimate takes into account a variety of enemy and friendly considerations and compares them against possible friendly courses of action, emphasizing the personnel factors that influence the courses of action.

IMRAS **shall(1)** allow users to access personnel estimate data only in those OPLANs to which they have update permissions.

The Personnel Estimate function **shall(2)** display a pick list of all available documents from which the user can choose.

If the user selects one of these documents, the Personnel Estimate function **shall(3)** display it by launching the Applix word processor. Applix will allow the user to modify or delete the selected document, or create a new one.

When the user exists the Applix word processor, IMRAS **shall(4)** return the user to the Session Defaults screen.

**3.2.2.2 Personnel Annex.** The purpose of the Personnel Annex is to amplify and expand on guidance contained in OPLANs that were developed as a result of deliberate planning. Action officers and planners can develop new annexes or modify existing ones with this function.

IMRAS **shall(1)** allow users to access personnel annex data only in those OPLANs to which they have update permissions.

The Personnel Annex function **shall(2)** display a pick list of all available documents from which the user can choose.

If the user selects one of the documents, the Personnel Estimate function **shall(3)** display it by launching the Applix word processor. Applix will allow the user to modify or delete the selected document, or create a new one.

When the user exists the Applix word processor, IMRAS **shall(4)** return the user to the Session Defaults screen.

**3.2.2.3 Supporting Documents.** The purpose of the Supporting Documents are to allow staff officers and planners to store reference files such as directives, orders, and instructions that are required to accomplish personnel related tasks.

IMRAS **shall(1)** allow users to access those supporting documents to which they have update permissions.

The Supporting Documents function **shall(2)** display a pick list of all available documents from which the user can choose.

If the user selects one of the documents, the Supporting Documents function **shall(3)** display it by launching the Applix word processor. Applix will allow the user to modify or delete the selected document, or create a new one.

When the user exists the Applix word processor, IMRAS **shall(4)** return the user to the Session Defaults screen.

### 3.2.3

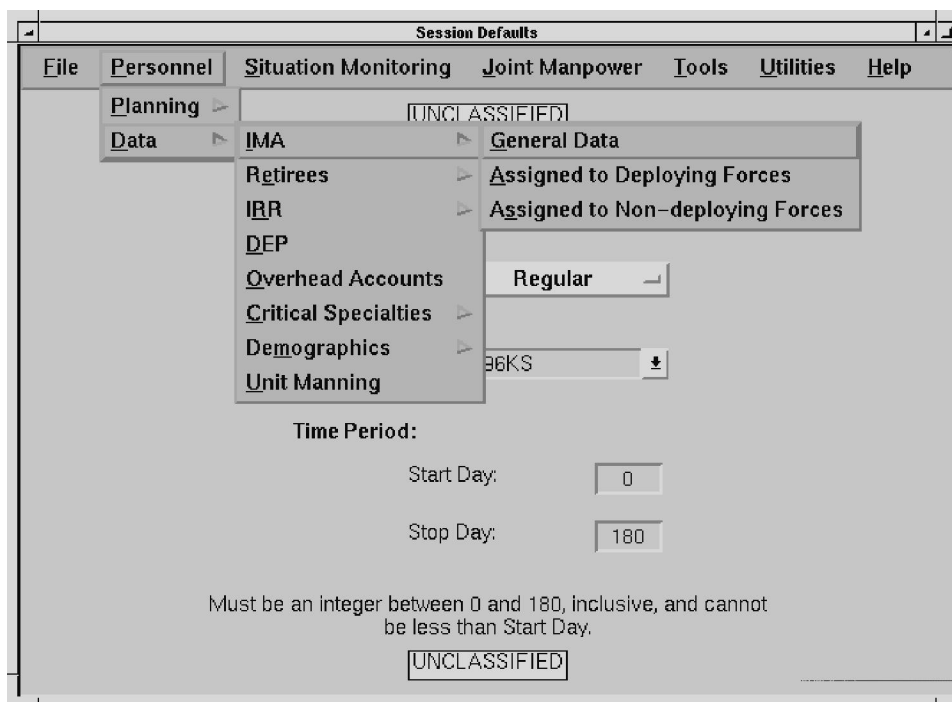
#### Data on

Personnel application users to various of this also user to information overhead critical n , demograp

unit manning levels. Personnel data consists of the following sub-areas:

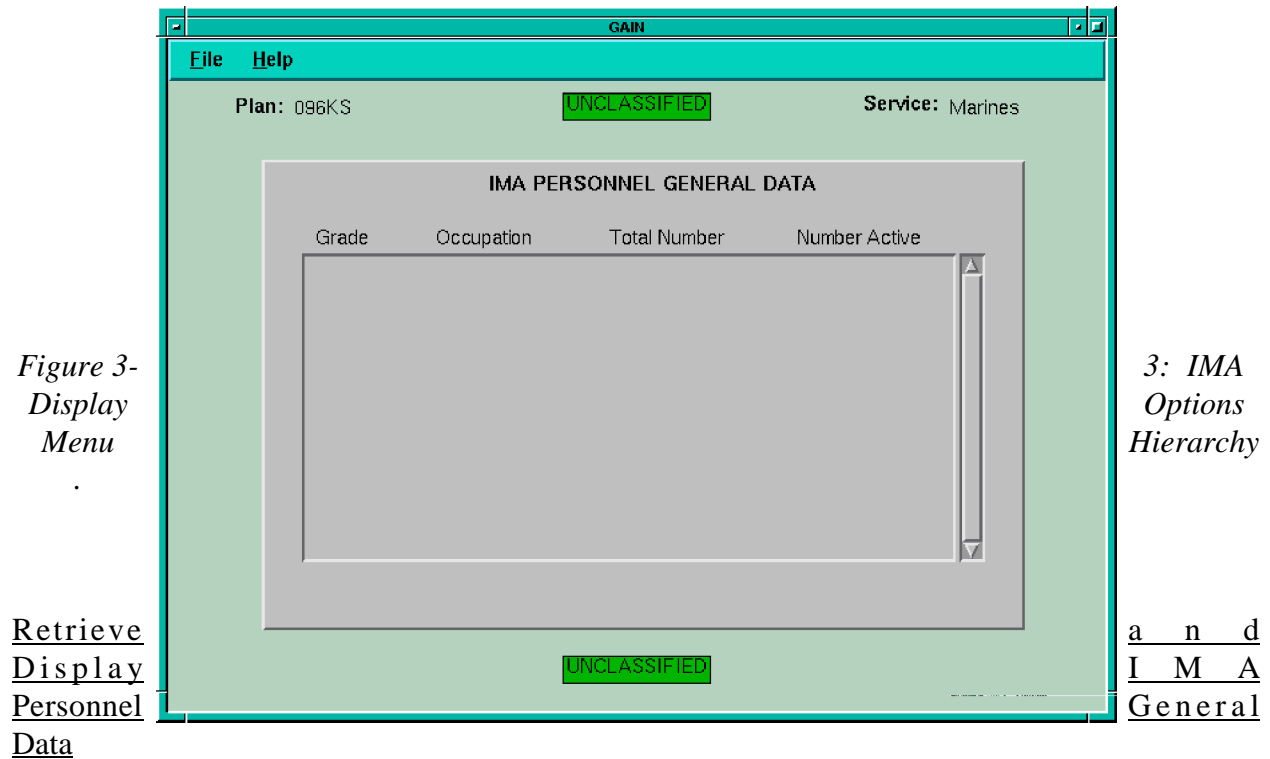
- IMA (Individual Mobilization Augmentee)
- Retirees
- IRR (Individual Ready Reserve)
- DEP (Dependents)
- Overhead Accounts
- Critical Specialties
- Personnel Demographics
- Unit Manning.

**3.2.3.1 Individual Mobilization Augmentee Application.** The IMA personnel pool makes up a significant source of pre-trained personnel that has trained with a particular Unit or activity and is available with minimal lead time to augment deploying or supporting forces. There are three options for displaying IMA information: IMA Personnel General Data, IMA assigned to deploying forces and IMA assigned to non-deploying forces. Figure 3-3 depicts the menu hierarchy for obtaining the IMA display options.



#### Personnel Application

The Data on allows display categories personnel. application allows the view n about accounts, occupatio specialties personnel hics, and



IMRAS **shall(1)** identify all units that meet the service and component criteria specified in Session Defaults.

IMRAS **shall(2)** aggregate the total number of IMAs by grade and occupation.

IMRAS **shall(3)** aggregate the total number of IMAs which have been activated by grade and occupation.

IMRAS **shall(4)** display the IMA Personnel General Data screen in tabular format containing the following information:

- Grade
- Occupation
- Total Number (of IMA Personnel)
- Number Active.

Figure 3-4 is an example of the IMA Personnel General Data screen containing all IMA data.

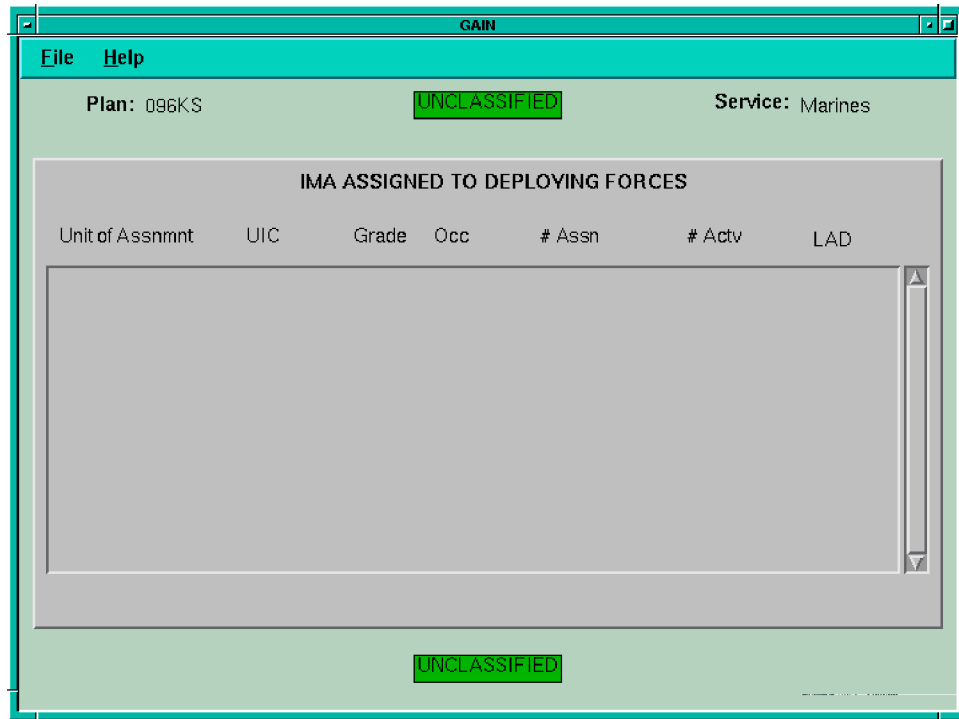


Figure 3-  
Personnel  
Data.

4: IMA  
General

#### IMA Deployment Data

IMRAS **shall(5)** identify all units that meet all criteria specified in Session Defaults.

IMRAS **shall(6)** determine the number of assigned and activated IMAs for each deploying unit by grade and occupation.

IMRAS **shall(7)** aggregate activated and assigned daily totals for every ten day period inclusive for the next 90 days, i.e., 30-120, 60-150.

IMRAS **shall(8)** display an IMA detail screen for IMA assigned to deploying forces in tabular format containing the following information:

- Unit of Assignment
- UIC (Unit Identification Code)
- Grade
- Occ (Occupation)
- #Assn (Number of Assigned IMA Personnel)
- #Actv (Number of Active IMA Personnel)
- LAD (Unit Latest Arrival Date).

Figure 3-5 is an example of the IMA Assigned to Deploying Forces Screen.



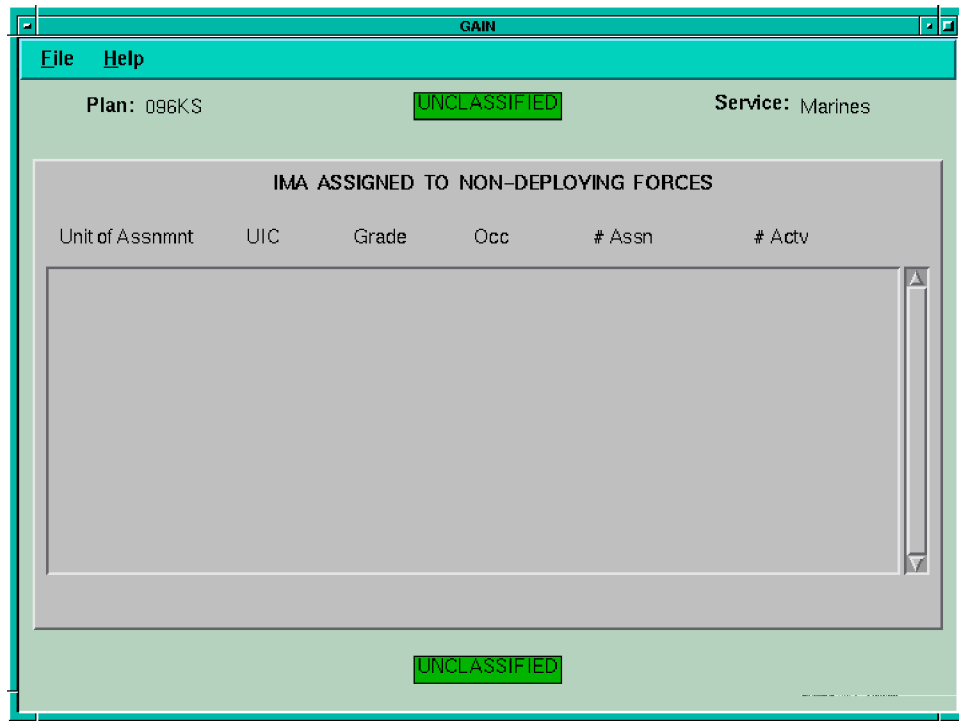


Figure 3-  
Assigned  
Deployin

5: IMA  
to  
g Forces.

#### IMA Non-Deployment Data

IMRAS **shall(9)** identify all units that meet all criteria specified in Session Defaults.

IMRAS **shall(10)** determine the number of assigned and activated IMAs for each non-deploying unit by grade and occupation.

IMRAS **shall(11)** display an IMA non-deploying Unit data screen in tabular format containing the following information:

- Unit of Assignment
- UIC
- Grade
- Occ (Occupation)
- #Assn (Number of Assigned IMA Personnel)
- #Actv (Number of Active IMA Personnel)

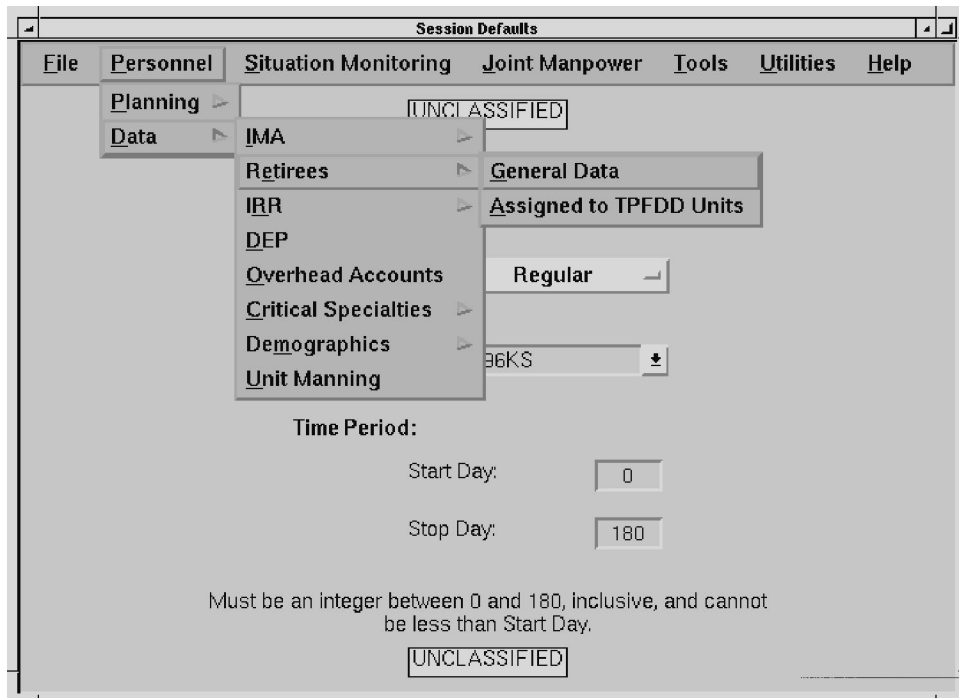
Figure 3-6 is an example of the IMA Assigned to Non-deploying Forces screen.

*Figure 3-6: IMA Assigned to Non-Deploying Forces.*

**3.2.3.2**

Each plans to retirees to critical shortfalls, force levels, and back-fill deploying. Although are mostly trained, also senior in age. Each has its policies recalling retirees.

depicts the menu hierarchy for obtaining Retiree data.

**Retirees.**

Service use meet skill enhance manning provide for personnel. retirees pre - they are relatively grade and Service own for and using Figure 3-7

Figure 3-7: Retiree Menu Hierarchy.

IMRAS **shall(1)** allow the user to view general data associated with all Retirees and data associated with Retirees assigned to OPLAN TPFDD Units.

IMRAS **shall(2)** identify all units that meet all criteria specified in Session Defaults.

IMRAS **shall(3)** determine the number of active and assigned retirees for each Unit by grade and occupation.

IMRAS **shall(4)** determine the number of active and available retirees for each Unit by grade and occupation.

Based on the user's choice for viewing Retiree information:

IMRAS **shall(5)** display the Retiree Personnel General Data screen, as illustrated in Figure 3-8, by providing the following data in tabular format:

- Grade
- Occupation
- Total Number (Number of Retirees Available)
- Number Active (Number of Retirees Assigned).

The screenshot displays a software window titled "GAIN". The window has a menu bar with "File" and "Help". Below the menu bar, there are three fields: "Plan: 096KS", a green box labeled "UNCLASSIFIED", and "Service: Marines". The main content area is titled "RETIREE PERSONNEL GENERAL DATA" and contains a table with four columns: "Grade", "Occupation", "Total Number", and "Number Active". The table is currently empty, and a vertical scrollbar is visible on the right side of the table area. At the bottom of the window, there is another green box labeled "UNCLASSIFIED".

| Grade | Occupation | Total Number | Number Active |
|-------|------------|--------------|---------------|
|-------|------------|--------------|---------------|

Figure 3-8: Retiree Personnel General Data.

IMRAS **shall(6)** display the Retirees Assigned to TPFDD Units screen by providing the following data in tabular format:

- Unit of Assignment
- UIC
- Grade
- Occ (Occupation)
- #Assn (Number of Retirees Assigned)
- #Actv (Number of Retirees Activated)
- LAD.

Figure 3-9 is an example of the Retirees Assigned to TPFDD Units screen.

GAIN

File Help

Plan: 086KS UNCLASSIFIED Service: Marines

RETIRES ASSIGNED TO TPFDD UNITS

| Unit of Assnmt | UIC | Grade | Occ | # Assn | # Actv | LAD |
|----------------|-----|-------|-----|--------|--------|-----|
|----------------|-----|-------|-----|--------|--------|-----|

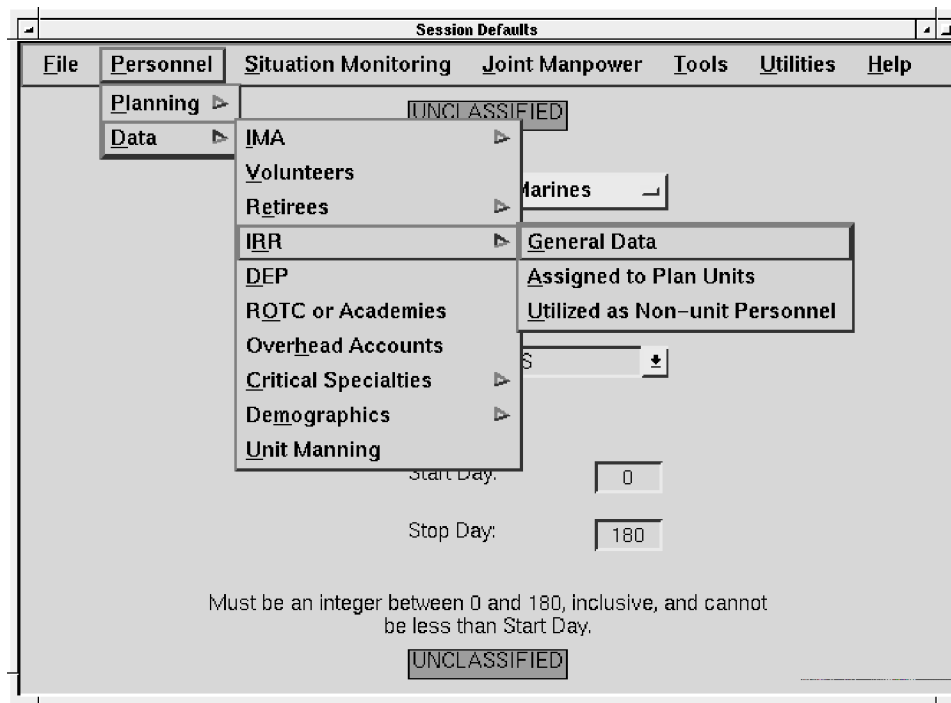
UNCLASSIFIED

Figure 3-9: Retirees Assigned to TPFDD Units.



**3.2.3.3****al Ready**

The IRR is the largest trained source for filler and non-unit IRR may be active assigned deploying Continent States support they may programm movement u n i t Personnel

**Individu  
Reserve.**

makes up pre-personnel OPLAN replacement personnel. be called duty and to o r al United (CONUS) Units, or b e ed for as Non-Related (NRP).

Figure 3-10 depicts the menu hierarchy for obtaining IRR data.

Figure 3-10: IRR Menu Hierarchy.

IMRAS **shall(1)** identify all IRR personnel that meet the service and component criteria specified in Session Defaults.

IMRAS **shall(2)** filter the IRR personnel to obtain those that are sourced against the OPLAN specified in Session Defaults.

IMRAS **shall(3)** filter the IRR personnel to obtain those with a status code of 'mobilized'.

IMRAS **shall(4)** filter the IRR personnel to obtain those with a status code of 'deployed'.

IMRAS **shall(5)** display the Entire IRR Pool screen, as illustrated in Figure 3-11, by providing the following data in tabular format:

- Grade
- Occupation
- Total Available
- Total Mobilized.

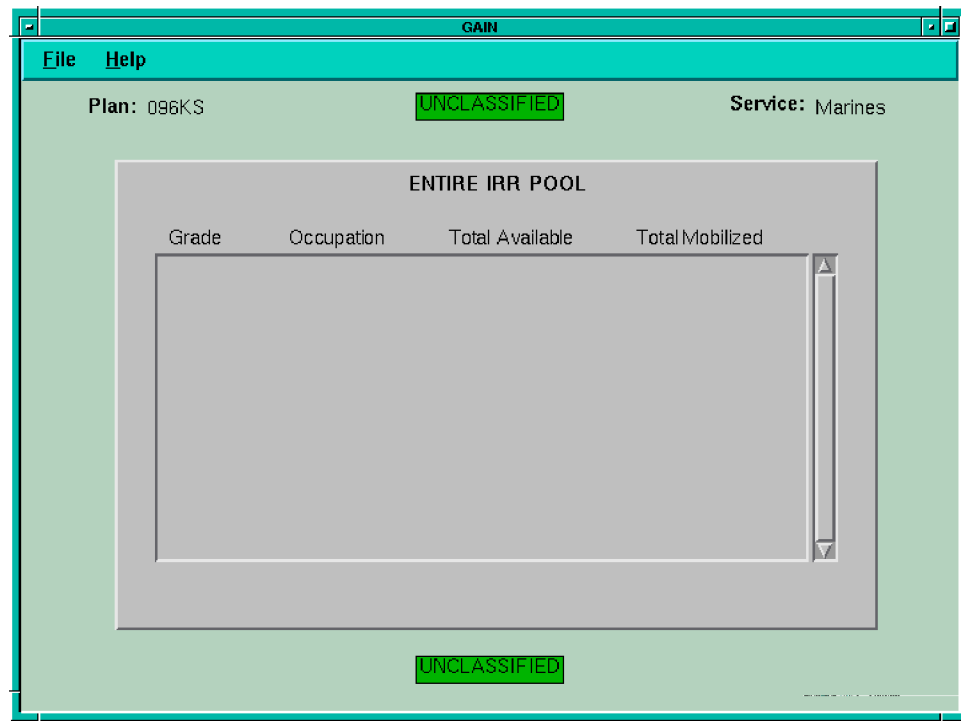


Figure 3-11: Entire IRR Pool.

IMRAS **shall(6)** display the IRR Personnel Assigned to OPLAN Units screen, as illustrated in Figure 3-12, by providing the following data in tabular format:

- Grade
- Occ (Occupation)
- Total Avail
- # Assigned to OPLAN Units.

The screenshot shows a software window titled "GAIN". At the top, there is a menu bar with "File" and "Help". Below the menu bar, the window displays "Plan: 096KS" on the left, a green box with "UNCLASSIFIED" in the center, and "Service: Marines" on the right. The main content area is titled "IRR PERSONNEL ASSIGNED TO OPLAN UNITS". It contains a table with the following headers: "Grade", "Occ", "Total Avail", and "# Assigned to OPLAN Units". The table body is currently empty. A green box with "UNCLASSIFIED" is located at the bottom of the window.

| Grade | Occ | Total Avail | # Assigned to OPLAN Units |
|-------|-----|-------------|---------------------------|
|-------|-----|-------------|---------------------------|

Figure 3-12: IRR Personnel Assigned to OPLAN Units.

IMRAS **shall(7)** display the IRR Utilized as Non-unit Personnel screen, as illustrated in Figure 3-13, by providing the following data in tabular format:

- Grade
- Occ (Occupation)
- Total Avail
- Total Called
- Total Deployed.

The screenshot shows a software window titled "GAIN" with a menu bar containing "File" and "Help". The window displays the following information:

- Plan: 096KS
- UNCLASSIFIED (in a green box)
- Service: Marines

The main content area is titled "IRR UTILIZED AS NON-UNIT PERSONNEL" and contains a table with the following headers:

| Grade   | Occ | Total Avail | Total Called | Total Deployed |
|---|-----|-------------|--------------|----------------|
| [Empty table body with a vertical scrollbar on the right] |     |             |              |                |

At the bottom of the window, there is another "UNCLASSIFIED" label in a green box.

Figure 3-13: IRR Utilized as Non-Unit Personnel.



**3.2.3.4****Entry**

The DEP represents a pool of personnel contracted for enlistment. Armed with a specific skill set, although not yet active, they are subject to more than one contract. They are emergency materialized personnel complete with requirements.

they are available to meet OPLAN or supporting requirements. Ordering DEP personnel to active duty results in an immediate input to the training base and will provide filler and replacement personnel when their training has completed. Figure 3-14 depicts the menu hierarchy for obtaining DEP data.

**Delayed Program.**

represents untrained who have for into the Forces at time. not yet they are call earlier originally should an or crisis e. These must all training nts before

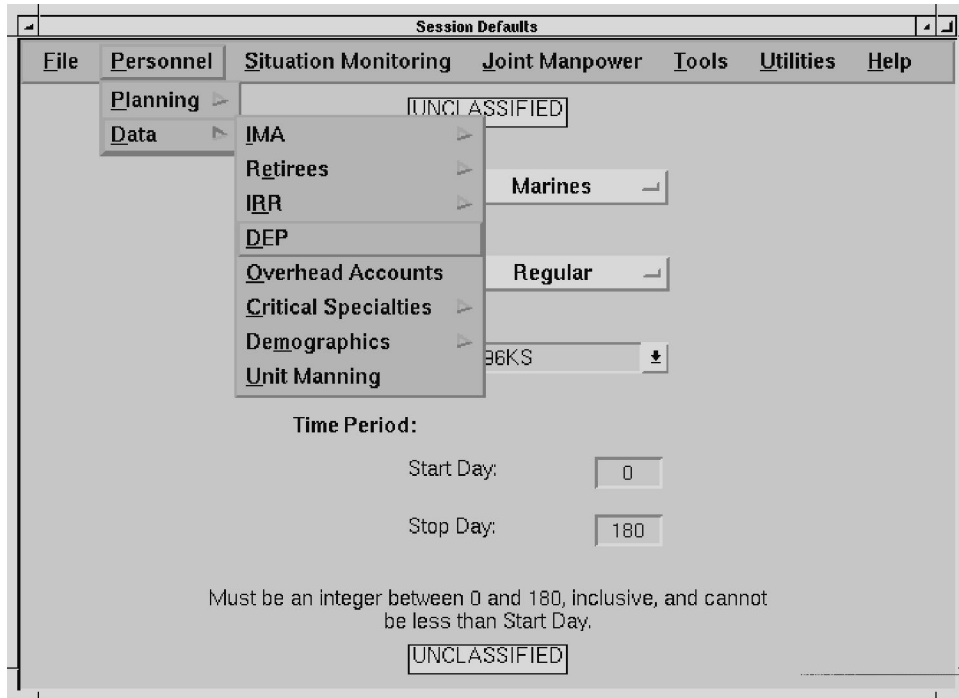


Figure 3-14: DEP Menu Hierarchy.

IMRAS **shall(1)** identify all DEP personnel that meet the service and component criteria specified in Session Defaults.

IMRAS **shall(2)** aggregate the number of DEP for each month of the past six months and for the current month.

IMRAS **shall(3)** display the current and past composition of the DEP pool for the past six months.

Figure 3-15 is an example of the DEP Composition screen.

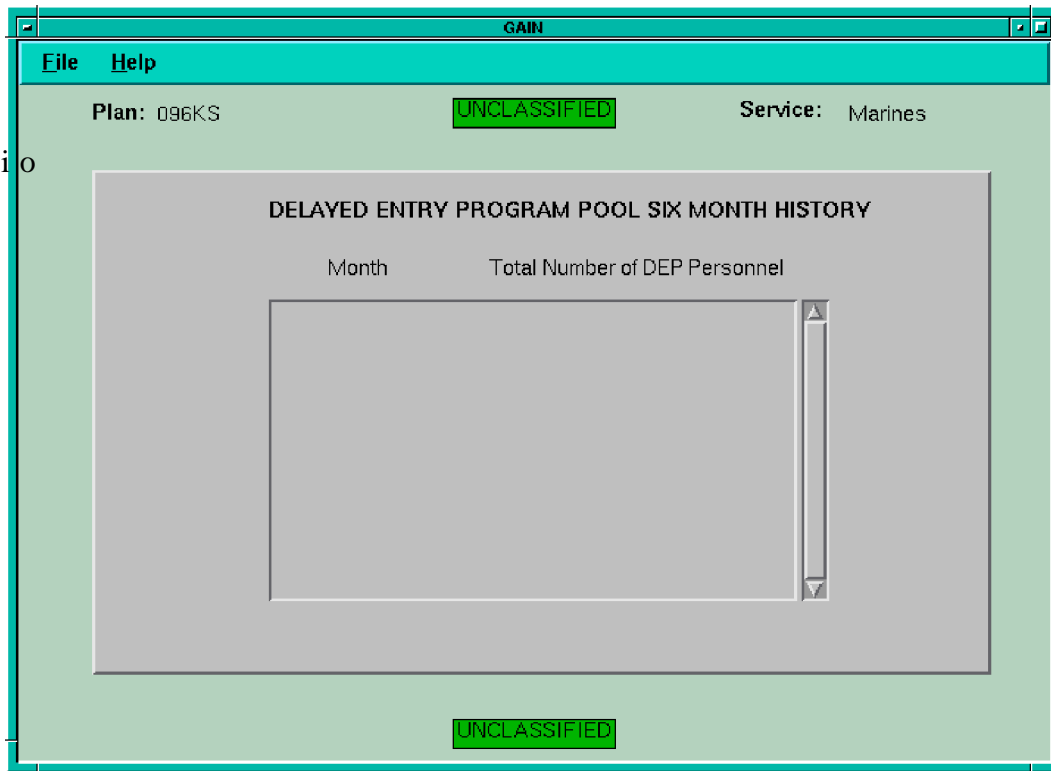
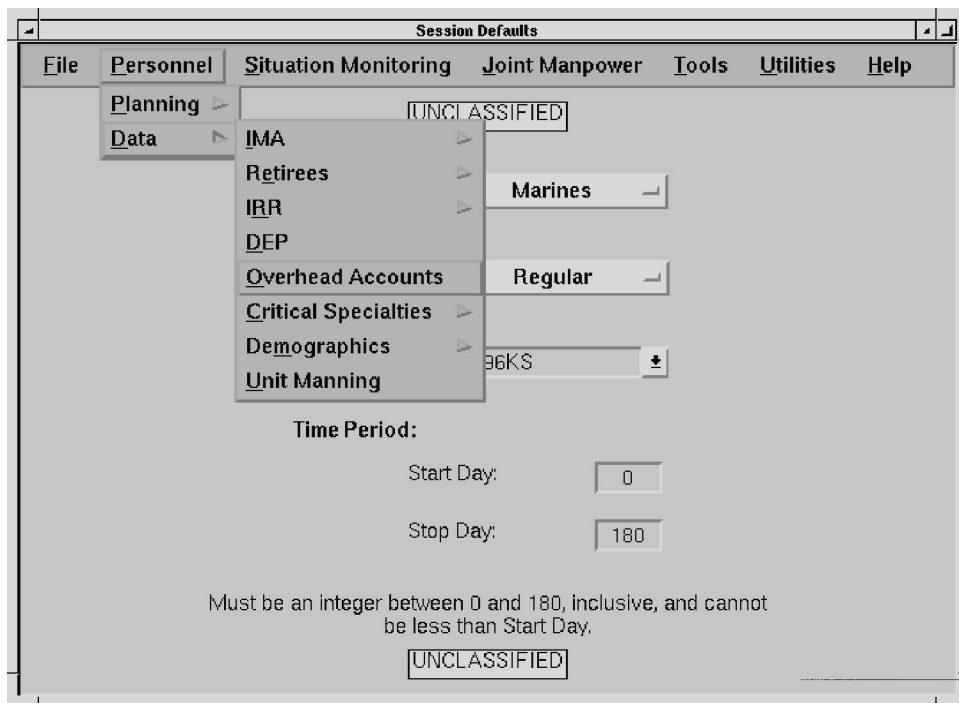


Figure 3-15 is an example of the DEP Composition screen.

Figure 3-15: DEP Composition.

**3.2.3.5****Accounts.**

overhead accounts consist of the categories precluding being operational units activities:

**Overhead**

Service accounts individuals following that them from assigned operation and

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Transient personnel  
Hospital patients  
Prisoners.

Although personnel in these categories can be diverted to meet filler and replacement requirements, they are highly fluid causing the compositions of their categories to change daily. Figure 3-16 depicts the menu hierarchy for obtaining Overhead Accounts status.

*Figure 3-16: Overhead Accounts Menu Hierarchy.*

IMRAS **shall(1)** identify all personnel that meet the service and component criteria and whose Port of Debarkation (POD) latest arrival date is within the specified time period as specified in Session Defaults.

IMRAS **shall(2)** determine the available overhead accounts personnel by grade, occupation and available date.

IMRAS **shall(3)** calculate the available Deployment Operation Commencement Day (C-Day) from the available date.

IMRAS **shall(4)** display the Overhead Accounts data screen, by providing the following data in tabular format:

- C-Day
- Available Date
- Primary OCC
- Grade
- # Available (Number of Personnel Available).

Figure 3-17 is an example of the Overhead Accounts Personnel Data screen.

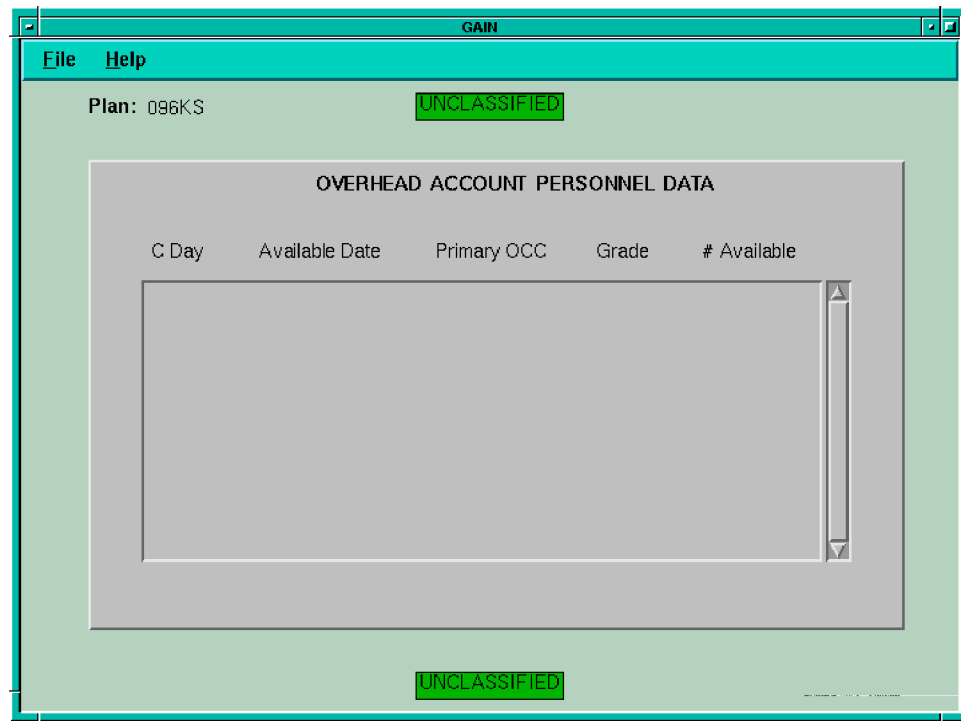
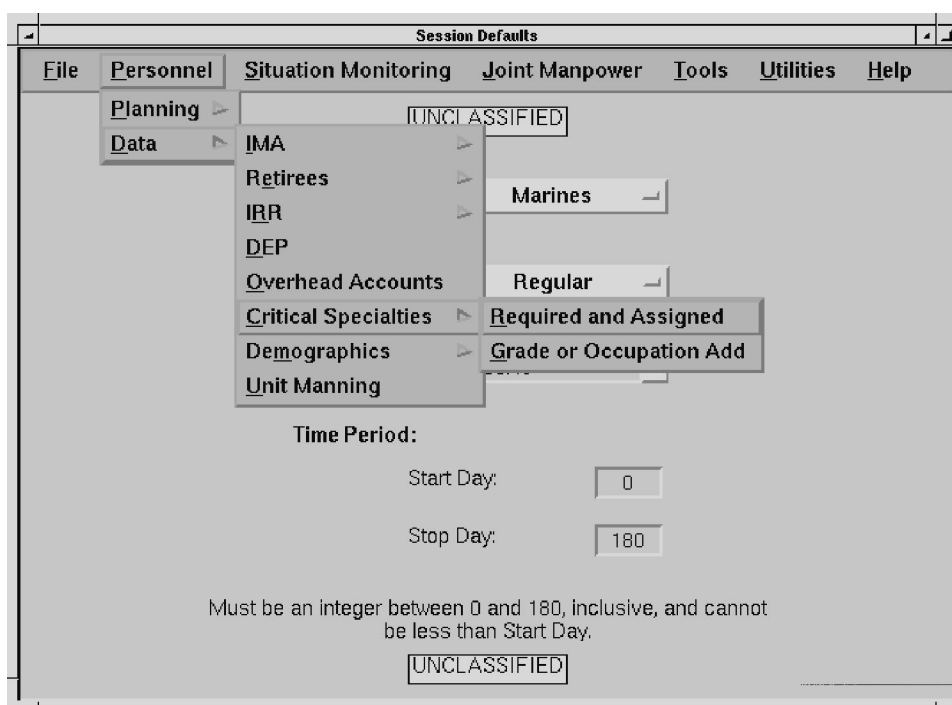


Figure 3-17: Overhead Accounts Personnel Data.

**3.2.3.6****Specialties**

Service occupational specialties critical available do not mission nts. Data to critical is of value planners determini alternate action to individual requireme designatio critical

**Critical**

s. Each h a s n a l deemed w h e n personnel meet Unit requireme pertaining specialties t o f o r n g courses of m e e t personnel nts. The n of a specialty

is often unique to a particular operation, for example, a particular language specialty. There are also specialty requirements that are critical to each service based on overall shortages in the inventory. Figure 3-18 depicts the menu hierarchy for obtaining Critical Specialties.

Figure 3-18: Critical Specialties Menu Hierarchy.

IMRAS **shall(1)** identify all critical specialties in the database by service and component specified in Session Defaults.

IMRAS **shall(2)** identify all Units sourced against the OPLAN for the service and component specified in Session Defaults.

IMRAS **shall(3)** determine the number of critical specialties required and assigned by grade and occupation for OPLAN and service.



IMRAS **shall(4)** display the Critical Specialties data screen by providing the following data in tabular format:

- Occ (Occupation)
- Grade
- # OPLAN Required
- # OPLAN Assigned
- Total Service Required
- Total Service Assigned.

Figure 3-19 is an example of the Critical Specialties Required and Assigned screen.

The screenshot shows a software window titled "GAIN" with a menu bar containing "File" and "Help". Below the menu bar, there are three fields: "Plan: 096KS", a green box labeled "UNCLASSIFIED", and "Service: Marines". The main content area is titled "CRITICAL SPECIALTIES REQUIRED AND ASSIGNED" and contains a table with the following headers: "Occ", "Grade", "# OPLAN Required", "# OPLAN Assigned", "Total Service Required", and "Total Service Assigned". The table body is empty, and there is a vertical scrollbar on the right side of the table area. At the bottom of the window, there is another green box labeled "UNCLASSIFIED".

| Occ | Grade | # OPLAN Required | # OPLAN Assigned | Total Service Required | Total Service Assigned |
|-----|-------|------------------|------------------|------------------------|------------------------|
|-----|-------|------------------|------------------|------------------------|------------------------|

Figure 3-19: Critical Specialties Required and Assigned.

IMRAS **shall(5)** allow users to add Critical Specialties by Grade and Occupation by presenting the Critical Specialties input screen illustrated in Figure 3-20.

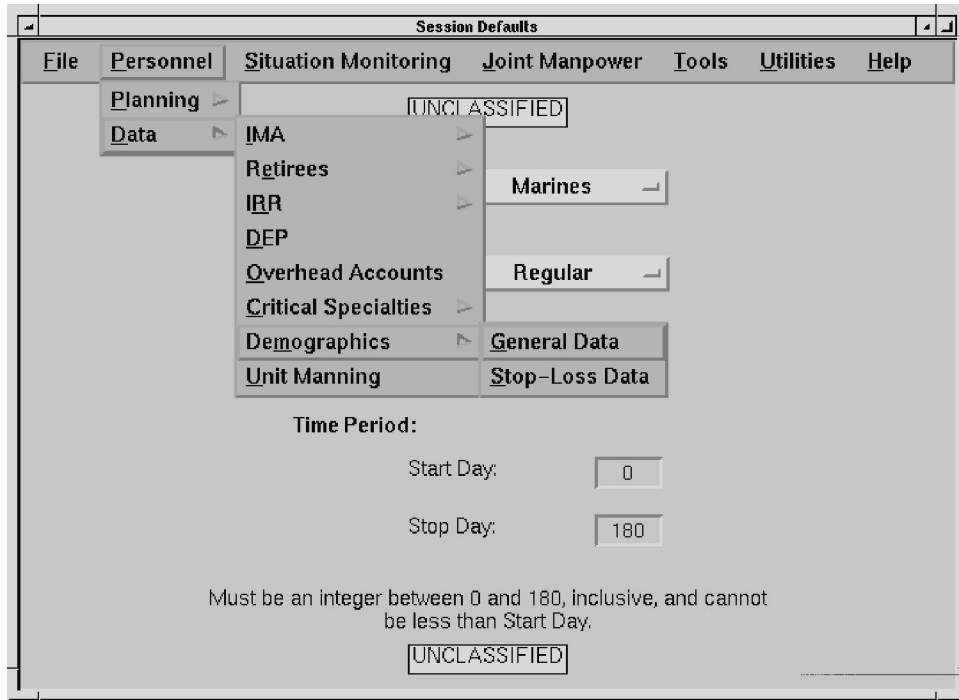
The screenshot shows a software window titled "GAIN" with a menu bar containing "File" and "Help". The main area has a light green background. At the top, it displays "Plan: 096KS" and "Service: Marines". There are two green boxes labeled "UNCLASSIFIED". Below the plan and service information, there are input fields for "Service:" and "CINC:". In the center, there is a grey rectangular box titled "CRITICAL SPECIALTIES GRADE/OCCUPATION ADD". Inside this box, there are two columns labeled "Occupation" and "Grade". Below these columns is a large empty rectangular area for data entry. At the bottom of the grey box is a "Commit" button. Another green box labeled "UNCLASSIFIED" is located at the bottom of the main window area.

Figure 3-20: Critical Specialties Grade/Occupation Add.

IMRAS shall(6) update Critical Specialties data in the IMRAS Database.

**3.2.3.7****phics.**

phics contain information about statistics of size, distribution, vital. The Demographics display summary as race, state. The Stop-Loss Demographics display numbers

**Demogra**

Demographics displays information characterizing the force: quantity, n, and statistics. Personnel phics provides data such sex, and residence. Loss phics includes o f

individuals by grade and skill who are scheduled to leave a service during specific time periods. Figure 3-21 depicts the menu hierarchy for Personnel and Stop-Loss Demographics.

Figure 3-21: Demographics Menu Hierarchy.

IMRAS shall(1) identify all Units sourced against the OPLAN for the service and

component specified in Session Defaults.

IMRAS **shall(2)** determine the number of personnel by race, sex, and state residence.

IMRAS **shall(3)** display the Personnel Demographics General data screen, as illustrated in Figure 3-22, by providing the following data in tabular format:

- Male (Male personnel count by race and total force)
- Female (Female personnel count by race and total force)
- Total (Total personnel count by race and total force).

The screenshot shows a software window titled "GAIN". Inside the window, there is a menu bar with "File" and "Help". Below the menu bar, the text "Plan: 096KS" is displayed on the left, a green box containing the word "UNCLASSIFIED" is in the center, and "Service: Marines" is on the right. The main area of the window contains a form titled "PERSONNEL DEMOGRAPHICS GENERAL DATA". This form has a table with four columns: "Male", "Female", "Total", and "State Residence Detail". The rows in the table are "Black Americans", "Hispanic Americans", "White Americans", "Other", and "Total Force". Each row has input fields for the first three columns and a "Select" button in the "State Residence Detail" column. At the bottom of the window, there is another green box containing the word "UNCLASSIFIED".

|                    | Male                 | Female               | Total                | State Residence Detail |
|--------------------|----------------------|----------------------|----------------------|------------------------|
| Black Americans    | <input type="text"/> | <input type="text"/> | <input type="text"/> | Select                 |
| Hispanic Americans | <input type="text"/> | <input type="text"/> | <input type="text"/> | Select                 |
| White Americans    | <input type="text"/> | <input type="text"/> | <input type="text"/> | Select                 |
| Other              | <input type="text"/> | <input type="text"/> | <input type="text"/> | Select                 |
| Total Force        | <input type="text"/> | <input type="text"/> | <input type="text"/> | Select                 |

Figure 3-22: Personnel Demographics General Data.



IMRAS **shall(4)** allow the user to select a Race and display the Demographic State Residence Screen for that race, as depicted in Figure 3-23, by providing the following data in tabular format:

- State Residence
- Male
- Female
- Total.

The screenshot shows a software window titled "PERSONNEL DATA". At the top, there is a menu bar with "File" and "Help". Below the menu bar, the text "Plan: 096KS" is displayed on the left, "UNCLASSIFIED" in a green box in the center, and "Service: Marines" on the right. Underneath, the label "Ethnic Group:" is followed by a large rectangular area titled "DEMOGRAPHIC STATE RESIDENCE DATA". This area contains a table with four columns: "State Residence", "Male", "Female", and "Total". The table body is currently empty. Below the table, there is a "Go Back" button. At the bottom of the window, the text "UNCLASSIFIED" is displayed in a green box.

Figure 3-23: Demographic State Residence Data.

IMRAS **shall(5)** identify all units sourced against the OPLAN for the service and component specified in Session Defaults and whose POD LAD is within the specified time period.

IMRAS **shall(6)** identify critical specialties.

IMRAS **shall(7)** determine the number of personnel by grade, occupation and end of term of service date.

IMRAS **shall(8)** calculate the relative C-Day from end of term of service date and OPLAN execution date.

IMRAS **shall(9)** determine if the occupation is critical.

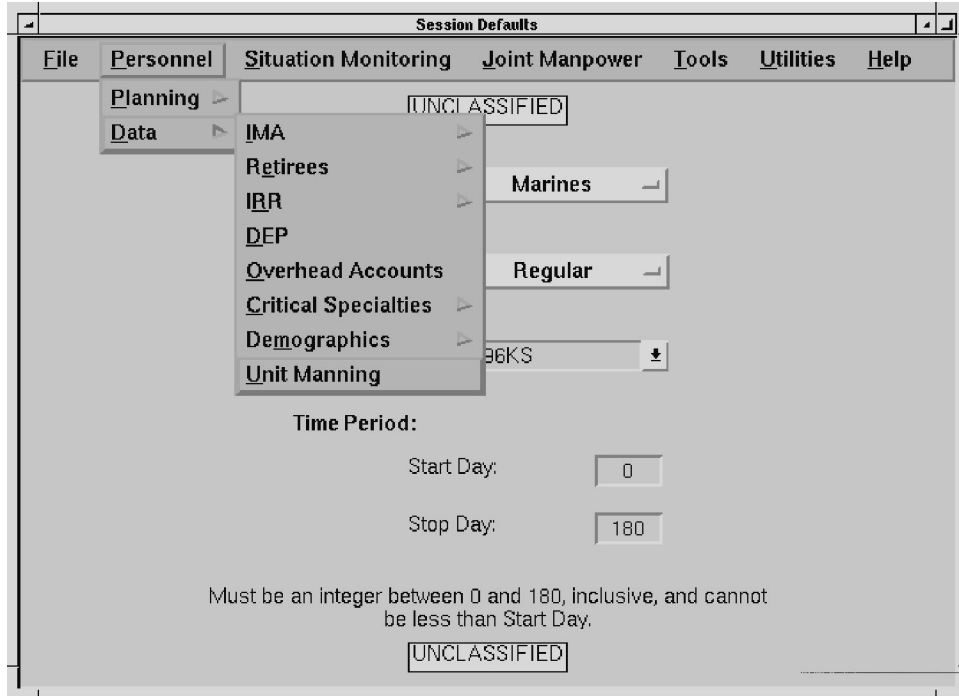
IMRAS **shall(10)** display the Demographics Stop-Loss Data screen by providing the following data in tabular format:

- End of Term of Svc Date
- Relative to C-Day
- Number of Personnel
- OCC (Occupation)
- Grade



**3.2.3.8****Manning.**

Manning visibility personnel the impact status has OPLAN accomplis Figure 3- the menu for Unit

**U n i t**

U n i t provides of a Unit's status and that the o n mission h m e n t . 25 depicts hierarchy Manning.

Figure 3-25: Unit Manning Menu Hierarchy.

IMRAS **shall(1)** identify all Units sourced against the OPLAN for the service and component specified in Session Defaults.

IMRAS **shall(2)** determine the Product Specification Level (C-Level) for each Unit.

IMRAS **shall(3)** determine the wartime required and assigned personnel for each Unit by grade and occupation.

IMRAS **shall(4)** aggregate the number of Units per C-Level.



Plan: 096KS UNCLASSIFIED Service: Marines

UNIT MANNING GENERAL DATA

| Unit Name | UIC | War-Time Required | # Assn | Per C-Level |
|-----------|-----|-------------------|--------|-------------|
|           |     |                   |        |             |

Detail

UNCLASSIFIED

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:

- Unit Name
- UIC
- War-time Required (Personnel)
- # Assn (Number of Assigned Personnel)
- Per C-Level.

Figure 3-26 is an example of the Unit Manning General Data screen.

*Figure 3-26: Unit Manning General Data.*

IMRAS **shall(6)** allow the user to select a Unit to obtain more detailed information.

IMRAS **shall(7)** display a Unit Manning Detail screen for the selected Unit by providing the following data in tabular format:

- UIC
- Grade
- Occ (Occupation)
- ASI (Additional Skill Identifier)
- Required (Number of Personnel Required)
- # Assn (Number of Personnel Assigned).

Figure 3-27 is an example of the Unit Manning Detail screen.



Session Defaults

File Personnel **Situation Monitoring** Joint Manpower Tools Utilities Help

Personnel Mobilization  
 Personnel Deployment  
 Sustainment Operations  
 SITREP or Casualty Reporting

Component: Regular

Plan: 096KS

Time Period:

Start Day: 0

Stop Day: 180

Must be an integer between 0 and 180, inclusive, and cannot be less than Start Day.

UNCLASSIFIED

Figure 3-27: Unit Manning Detail.

### 3.2.4 Situation Monitoring

In a crisis situation, Personnel Action Officers and Planners require accurate information quickly, to develop reports on personnel-related events that affect mobilization, deployment and sustainment. The Situation Monitoring function provides these capabilities under four broad categories:

- Personnel Mobilization
- Personnel Deployment
- Sustainment Operations
- Situation Report (SITREP) and Casualty Report (CASREP) Data.

**3.2.4.1 Personnel Mobilization.** The number of individuals that can be mobilized to meet OPLAN requirements is specified by the particular legal authority invoked by the President or Congress. The Joint Staff and Officer of the Secretary of Defense (OSD) have responsibility to ensure that the limits imposed by law are not exceeded. Personnel Mobilization provides information by personnel category on the progress of mobilization. This information is known as the “J1 Report” and is a requirement contained in the Joint Reporting System (JRS). Figure 3-28 depicts the menu hierarchy for Personnel Mobilization.

*Figure 3-28: Personnel Mobilization Menu Hierarchy.*

IMRAS **shall(1)** identify all Units sourced against the OPLAN for the service and component specified in Session Defaults.

IMRAS **shall(2)** aggregate, by personnel source code, the number of mobilized personnel that have been notified.

IMRAS **shall(3)** aggregate, by personnel source code, the number of mobilized personnel that have reported.

IMRAS **shall(4)** calculate the percent of total selective reserve that have reported.

IMRAS **shall(5)** calculate the percent of total IRR that have reported.

IMRAS **shall(6)** display the Personnel Mobilization Data screen, as shown in Figure 3-29.

| GAIN                            |        |              |        |                |       |            |
|---------------------------------|--------|--------------|--------|----------------|-------|------------|
| File Help                       |        |              |        |                |       |            |
| Plan: 096KS                     |        | UNCLASSIFIED |        | AS OF: 3/11/96 |       |            |
| PERSONNEL MOBILIZATION DATA     |        |              |        |                |       |            |
| Call up authority: DOD          |        | 10USC 673b   |        | DOT            |       | 10USC 673b |
|                                 | USA    | USN          | USAF   | USMC           | USCG  | TOTAL      |
| Active duty                     | 750953 | 250318       | 187739 | 150191         | 75096 | 01414297   |
| Aggregate TAR                   | 001000 | 000334       | 000250 | 000200         | 00100 | 00001884   |
| Selected Reserve notified       | 003451 | 001151       | 000863 | 000691         | 00346 | 00006502   |
| Selected Reserve reported       | 003451 | 001151       | 000863 | 000691         | 00346 | 00006502   |
| % of total selected Reserve     | 000005 | 000002       | 000002 | 000001         | 00001 | 00000011   |
| Callup authority                | 000000 | 000000       | 000000 | 000000         | 00000 | 00000000   |
| IRR notified                    | 000000 | 000000       | 000000 | 000000         | 00000 | 00000000   |
| IRR reported                    | 000000 | 000000       | 000000 | 000000         | 00000 | 00000000   |
| % of total IRR                  | 000000 | 000000       | 000000 | 000000         | 00000 | 00000000   |
| Standby                         | 000000 | 000000       | 000000 | 000000         | 00000 | 00000000   |
| Retirees reported involuntarily | 000000 | 000000       | 000000 | 000000         | 00000 | 00000000   |
| Retirees reported voluntarily   | 000000 | 000000       | 000000 | 000000         | 00000 | 00000000   |
| TRND manpower total             | 000000 | 000000       | 000000 | 000000         | 00000 | 00000000   |
| Inductees                       | 000000 | 000000       | 000000 | 000000         | 00000 | 00000000   |
| Volunteers                      | 000000 | 000000       | 000000 | 000000         | 00000 | 00000000   |
| DEP                             | 000000 | 000000       | 000000 | 000000         | 00000 | 00000000   |

Figure 3-29: Personnel Mobilization Data Input Screen.

IMRAS **shall(7)** allow the user to modify the data on the Personnel Mobilization Data input screen.

IMRAS **shall(8)** update Personnel Mobilization data in the IMRAS Database.

**3.2.4.2****Deploy**

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arrivals  
of Non-  
personnel  
occupati  
g r a d e .

Session Defaults

File Personnel Situation Monitoring Joint Manpower Tools Utilities Help

Personnel Mobilization

Personnel Deployment

Sustainment Operations

SITREP or Casualty Reporting

Component: Regular

Plan: 096KS

Time Period:

Start Day: 0

Stop Day: 180

Must be an integer between 0 and 180, inclusive, and cannot be less than Start Day.

UNCLASSIFIED

**Personnel  
ment .**

Deployme  
provides  
w i t h  
of normal  
priority  
movements  
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of groups  
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Figure 3-

30 depicts the Personnel Deployment menu hierarchy.

*Figure 3-30: Personnel Deployment Menu Hierarchy.*

IMRAS shall(1) have access to the JPAV application.

When the user selects the Personnel Deployment menu item, IMRAS **shall(2)** launch the JPAV application.

When the user is finished using JPAV, IMRAS **shall(3)** continue where the user left off.

**3.2.4.3**

**e n t ns.** The Planner is to monitor of filler replaceme personnel theater of to ensure TPFDD a n d a r e to support OPLAN. personnel i s ed during deliberate

Session Defaults

File Personnel **Situation Monitoring** Joint Manpower Tools Utilities Help

Personnel Mobilization  
 Personnel Deployment  
**Sustainment Operations**  
 SITREP or Casualty Reporting

Component: Regular

Plan: 096KS

Time Period:  
 Start Day: 0  
 Stop Day: 180

Must be an integer between 0 and 180, inclusive, and cannot be less than Start Day.

UNCLASSIFIED

**Sustainm Operatio**

Personnel required the flow a n d n t into the operations that NRP planning execution adequate t h e Non-unit movement programm t h e planning

stage and updated during execution. Figure 3-31 depicts the Sustainment Operations menu hierarchy.

*Figure 3-31: Sustainment Operations Menu Hierarchy.*

IMRAS **shall(1)** identify all units that meet all criteria specified in Session Defaults.

IMRAS **shall(2)** identify the number of projected and the number of actual Non-unit personnel to arrive in theater.

IMRAS **shall(3)** aggregate the totals for projected and actual arrivals in 10 day increments over 90 days.

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| GAIN                               |           |        |
|------------------------------------|-----------|--------|
| File Help                          |           |        |
| Plan: 096KS UNCLASSIFIED           |           |        |
| NON-UNIT PERSONNEL FLOW TO THEATER |           |        |
| CDAY                               | PROJECTED | ACTUAL |
| 10                                 | 310       | 450    |
| 20                                 | 390       | 350    |
| 30                                 | 250       | 250    |
| 40                                 | 350       | 340    |
| 50                                 | 400       | 400    |
| 60                                 | 790       | 550    |
| 70                                 | 340       | 340    |
| 80                                 | 395       | 395    |
| Row 1 > >>                         |           |        |
| UNCLASSIFIED                       |           |        |

S shall(4) display the  
ing Sustainment  
tions data in tabular  
as shown in Figure 3-

Day (in 10 day  
ments)  
Projected (Number of  
unit personnel)  
Actual (Number of  
unit personnel that  
arrived in theater).

Figure 3-32: Non-Unit Personnel Flow to Theater.

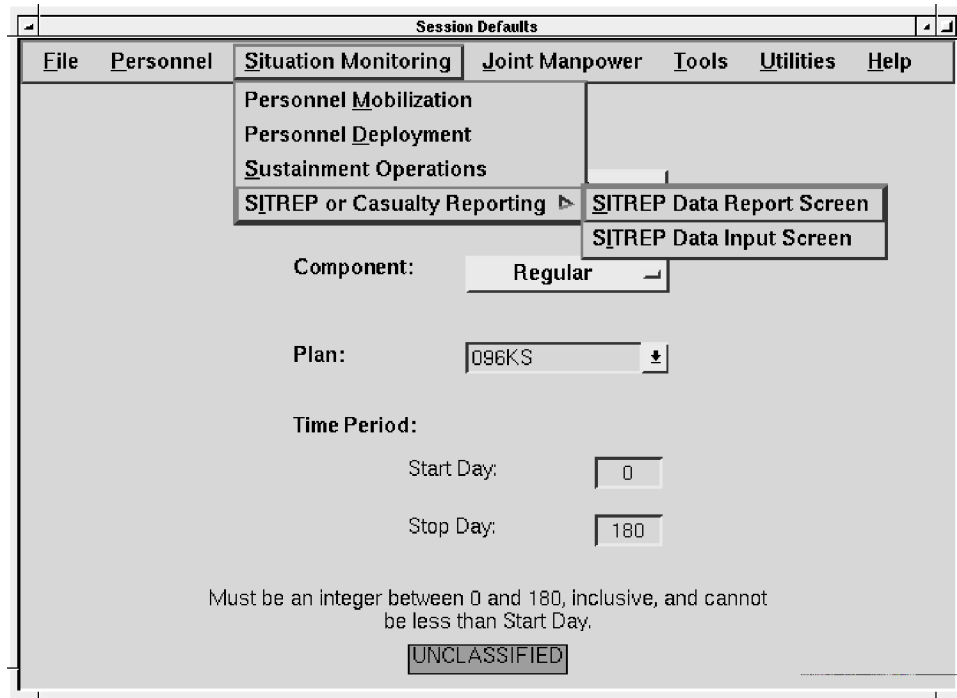
**3.2.4.4 SITREP and CASREP Data.** SITREP and CASREP Data allows users to import data from United States Message Text Format (USMTF) either via the JOPES Automated Message Handling System or as a predefined JOPES Report (JOPESREP). Examples of USMTF data include:

- Personnel Status Report (PERSTAT)
- Military Postal Facility Request (POSTREQ)
- Mail Distribution Scheme Change (MAILDISTCH).





displays fields from these Figure 3- and Data hierarchy.



IMRAS selected each of reports. 33 depicts SITREP CASREP menu

Figure 3-33: SITREP and CASREP Menu Hierarchy.

IMRAS **shall(1)** allow the user to select one of the SITREPs or CASREPs.

For SITREPs, IMRAS **shall(2)** determine the PERSTAT data for the selected report.

IMRAS **shall(3)** aggregate the total loss for each category and status.

Personnel

Category

## Authorized (Personnel)

- Assigned (Personnel)
- On hand
- Gained
- Replaced
- Reported
- Deployed
- Total Loss
- Perstat Reports (Report from which the data was extracted)
- Period Date Range
- Remarks.

Figure 3-34 is an example of the Situation Report screen.

*Figure 3-34: Situation Report.*

For CASREPs, IMRAS **shall(5)** determine the Personnel Loss (PERLOSS) data for the selected report.

IMRAS **shall(6)** aggregate the total loss for each status.

Casualty Report Screen

File Help

Plan: 096KS UNCLASSIFIED

CASUALTY REPORT SCREEN

PERSTAT Reports: PERSTAT03/HQUSJTF123

Period Date Range:

From: 11-23-95 To: 03-07-96

As of: 03-07-96

| Service | Total Loss | KIA | WIA | MIA | DNBI | DSRT | AWOL |
|---------|------------|-----|-----|-----|------|------|------|
| A       | 134        | 23  | 57  | 2   | 48   | 0    |      |
| F       | 15         | 13  | 0   | 2   | 0    | 0    |      |
| M       | 112        | 12  | 30  | 5   | 65   | 0    |      |
| N       | 66         | 12  | 20  | 1   | 33   | 0    |      |
| ALL     | 327        | 60  | 107 | 10  | 146  | 0    |      |

Remarks:

UNCLASSIFIED

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- Service
- Total Loss
- KIA (Killed in Action)
- WIA (Wounded in Action)
- MIA (Missing in Action)
- DNBI
- DSRT
- AWOL (Absent Without Leave)
- Perstat Reports (Report from which the data was extracted)
- Period Date Range
- Remarks.

Figure 3-35 is an example of the Casualty Report screen.

*Figure 3-35: Casualty Report.*

IMRAS **shall(8)** allow the user to update the PERSTAT and PERLOSS data, by enlisted and officer personnel, as illustrated in Figure 3-36.

File Help

Plan: 096KS

UNCLASSIFIED

REPORT DATA INPUT SCREEN

Operation/Exercise

Message ID Title Month Unit

Reference Period To As of

Personnel Status Personnel Loss

Personnel Category Total

Authorized KIA

Assigned WIA

On Hand MIA

Gain DNBI

Replacements Deserted

UNCLASSIFIED

Figure 3-36: Report Data Input Screen.

IMRAS shall(9) update the SITREP and CASREP data in the GCCS Database.

### 3.2.5 Joint Personnel Monitoring Capability

The Joint Personnel Monitoring Capability provides “top-of-the-system” visibility of currently programmed and actual manning levels for the various Joint Headquarters. This capability has two options:

Joint Table of Distribution (JTD) Status

Joint Table of Mobilization Distribution (JTMD) Status.



**3.2.5.1****Status.**

Table of  
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s and Joint  
The JTDs  
reviewed  
updated  
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Objective  
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The JTD  
to provide  
distributio  
billets to

Session Defaults

File Personnel Situation Monitoring Joint Manpower Tools Utilities Help

UNCL JTD Status JTMD Status

Service: Marines

Component: Regular

Plan: 096KS

Time Period:

Start Day: 0

Stop Day: 180

Must be an integer between 0 and 180, inclusive, and cannot be less than Start Day.

UNCLASSIFIED

**J T D**

The Joint  
Distributi  
establishes  
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n of Joint  
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Commanders-in-Chief (CINCs) and Joint Activities in order to accomplish assigned missions. Figure 3-37 depicts the menu hierarchy for obtaining the Joint Personnel screens.

Figure 3-37: Joint Personnel Menu Hierarchy.

IMRAS **shall(1)** obtain the report type from the user: officer, enlisted, civilian, or combined.

IMRAS **shall(2)** identify all Units that meet the service and component criteria as specified in Session Defaults.

IMRAS **shall(3)** determine the number of filled and vacant personnel authorizations by grade.

IMRAS **shall(4)** determine the number of filled and vacant personnel authorizations by grade and occupation for each Work Center (WKC) and line.

IMRAS **shall(5)** display the JTD Detail Data screen, as illustrated in Figure 3-38, with the following data in tabular format:

- WKC
- Line
- Title
- Occ (Occupation)
- Grade
- SVC (Service)
- Status.

| WKC  | Line | Title          | OCC   | Grade | SVC | Status |
|------|------|----------------|-------|-------|-----|--------|
| 0002 | 001  | CHEIF OF STAFF | 0080S | O9    | A   | VACANT |
| 0002 | 003  | EXEC OFFICER   | 01A00 | O5    | A   | FILLED |
| 0002 | 005  | SEC JNT STAFF  | 9082  | C1    | N   | VACANT |
| 0002 | 005  | SEC JNT STAFF  | 9082  | C2    | N   | FILLED |
| 0002 | 005  | SEC JNT STAFF  | 9082  | O5    | N   | VACANT |
| 0019 | 005  | O5555 OFFICER  | 5555  | O5    | N   | VACANT |
| 0019 | 008  | O8 88 OFFICER  | 8888  | O8    | N   | FILLED |
| 0019 | 008  | O9999 OFFICER  | 9999  | O9    | N   | FILLED |

Figure 3-38: JTD Detail Data.

**3.2.5.2 JTMD Status.** The Joint Table of Mobilization Distribution establishes post-mobilization manning authorizations for the Unified Commands and Joint Activities. In addition to authorizing additional personnel to meet wartime and crisis conditions, the JTMD specifies billets that will be eliminated during mobilization.

IMRAS **shall(1)** obtain selection criteria from the user: officer, enlisted, civilian, or combined.

IMRAS **shall(2)** identify all Units that meet the service and component criteria as specified in Session Defaults.

IMRAS **shall(3)** determine the number of personnel authorizations, by grade and occupation for each WKC and line, that have been identified and whether or not they have arrived.

IMRAS **shall(4)** display the JTMD Data screen, as shown in Figure 3-39, with the following data in tabular format:

- As of (Date that the JTMD was run)
- Based on FY (Fiscal year that the personnel authorizations reflect)
- WKC
- Line

**File Help**

Plan: 096KS **UNCLASSIFIED** As of:

Command: Based on FY Authorizations

**JTMD DATA**

| WKC  | Line | Title          | OCC   | Grade | SVC | Asset<br>Identified | Arrivd |
|------|------|----------------|-------|-------|-----|---------------------|--------|
| 0002 | 001  | CHEIF OF STAFF | 0080S | O9    | A   | N                   | N      |
| 0002 | 003  | EXEC OFFICER   | 01A00 | O5    | A   | Y                   | NA     |
| 0002 | 005  | SEC JNT STAFF  | 9082  | C1    | N   | Y                   | N      |
| 0002 | 005  | SEC JNT STAFF  | 9082  | C2    | N   | Y                   | N      |
| 0002 | 005  | SEC JNT STAFF  | 9082  | O5    | N   | Y                   | N      |
| 0019 | 005  | O5555 OFFICER  | 5555  | O5    | N   | N                   | N      |
| 0019 | 008  | O8 88 OFFICER  | 8888  | O8    | N   | N                   | N      |
| 0019 | 008  | O9999 OFFICER  | 9999  | O9    | N   | Y                   | N      |
| 0030 | *008 | REC SVC OFF    | 42AFS | O3    | A   | Y                   | NA     |
| 0030 | 032  | SR LIAISON OFF | 1435  | O4    | AF  | N                   | N      |

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*Figure 3-39: JTMD Data.*

## 3.2.6

Tools  
abilities

The screenshot shows a software window titled "Session Defaults". It has a menu bar with "File", "Personnel", "Situation Monitoring", "Joint Manpower", "Tools", "Utilities", and "Help". The "Tools" menu is open, showing "Requirements Analysis" and "Non-Unit TPFDD Build". The main area contains the following fields:

- Service:** A dropdown menu with "Marines" selected.
- Component:** A dropdown menu with "Regular" selected.
- Plan:** A text box with "096KS" and a dropdown arrow.
- Time Period:** Two text boxes: "Start Day:" with "0" and "Stop Day:" with "180".

Below these fields is a note: "Must be an integer between 0 and 180, inclusive, and cannot be less than Start Day." At the bottom of the window is a green box labeled "UNCLASSIFIED".

## Tools

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Build and modify Non-unit Replacement Personnel TPFDD files.

Both of these capabilities have already been developed under the name Non-unit Personnel Generator or NPG. They existed on the WWMCCS mainframe and were migrated to GCCS. On the mainframe, and according to the original IMRAS SRS, NPG accessed the Medical Planning Module. On GCCS, the Medical Planning Module has been replaced by MEPES. Figure 3-40 depicts the menu hierarchy for obtaining the IMRAS Tools screens.

*Figure 3-40: IMRAS Tools Menu Hierarchy.*

For more information on NPG, see the NPG User's Guide and the NPG Maintenance Manual.



## 3.2.7 Utilities

IMRAS enable the present related information and to relate to the user. The user will allow and Joint action assessments and decision personnel IMRAS to work

Session Defaults

File Personnel Situation Monitoring Joint Manpower Tools Utilities Help

UNCLASSIFIED

Service: Marines

Component: Regular

Plan: 096KS

Time Period:

Start Day: 0

Stop Day: 180

Must be an integer between 0 and 180, inclusive, and cannot be less than Start Day.

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## Utilities

The Utilities user to personnel information effectively the rest of community utilities planners Staff officers to require brief makers on issues. contains utilities:

Checklist and Significant Events. Figure 3-41 depicts the menu hierarchy for obtaining the IMRAS Utilities screens.

Figure 3-41: IMRAS Utilities Menu Hierarchy.



**3.2.7.1**

The provides officer or with a list considerat applicable planning execution personnel o n , nt, and n t s. It is alone or in on with significant list.

**GAIN**

File Help

Plan: 096KS UNCLASSIFIED

**CHECKLIST TITLE**

NON-UNIT RELATED PERSONNEL SUSTAINMENT  
PERSONNEL MOBILIZATION  
PERSONNEL DEPLOYMENT  
JOINT MANNING  
ACTION ROUTING

Move cursor to desired question. Change YES/NO to answer to questions.

1. [Y] Does a current Non-unit Related Personnel TPFDD exist for the OPLAN that is currently under consideration?
2. [Y] Will the NRP TPFDD require significant modification to adequately support OPLAN execution?
3. [Y] Has a current and approved MEPES ran been made wich provides casualty losses as a bais for replacement computaions?
4. [N] Are mobilization options being considered to meet immediate and logn term requirements for untrained, partially trained, and trained manpower?
5. [N] Has coordination been made with the&& Transportation Opeating Agencies to ensure that intransit personnel reporting mechanisms are operationsl?

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**Checklist**

Checklist the action planner o f i o n s t o a n d o f mobilizati deployme sustainme operation u s e d conjuncti t h e e v e n t s

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IMRAS shall(2) allow the user to select one of the checklists for display as shown in Figure 3-42.

*Figure 3-42: Checklist Selection Screen.*

IMRAS **shall(3)** display the selected checklist.

IMRAS **shall(4)** allow the user to modify the checklist.

IMRAS **shall(5)** save the changes to the GCCS database.

**3.2.7.2 Significant Events.** Significant Events provide a historical record of various types of events and a chronology of actions taken. This function displays the events and allows the user to modify them or add new ones as they occur.

| DATE     | DESCRIPTION                                   | REMARKS                |
|----------|---|------------------------|
| 12/7/89  | Invasion of BlueLand by Redland forces        | NEO Evacuation started |
| 12/21/89 | President issues ultimatum to Redland premier | None                   |
| 3/13/92  | C-Day declared for deployment of US forces    | OPLAN 999-6 TPFDD      |
| 6/23/95  | President orders 200K Sel-Res to active duty  | Memo sent by CJCS      |

IMRAS shall(1) determine the significant events.

- IMRAS shall(2) display the Significant Events screen, as shown in Figure 3-43, with the following data in tabular format:
  - Date (of the event)
  - Description (Description of the significant event)
  - Remarks.

*Figure 3-43: Significant Events.*

- IMRAS **shall(3)** allow the user to modify all fields on the Significant Events screen.
- IMRAS **shall(4)** save the changes to the GCCS Database.

## **SECTION 4 - TEST REQUIREMENTS**

### **4.1 GENERAL**

This section contains the general test requirements that will be used to verify that the software meets the requirements specified in Section 3 of this document. There are two categories of test verification identified below: test classes and subclasses.

The test classes and subclasses identified in the Verification Cross Reference Matrix (VCRM) will be used in the Test Plan and identifies how the requirement will be tested and verified. Test Classes identify the type of testing that will be conducted and the subclasses define the extent of that testing.

### **4.2 GENERAL TEST REQUIREMENTS**

The following general test requirements are applicable to the test cases that will be included in the Test Plan.

All tests shall verify that appropriate responses, in the form of expected results, are received for each test case.

All tests shall verify that, where appropriate, database changes result from functions performed by the tester as defined in the expected results column of the test case.

### **4.3 TEST CLASSES**

Individual tests will generally cover verifying operations within major functional boundaries or follow a logical data flow thread through one or more functions. The various test classes include:

Display (DIS) - Validates the screen contents and format are proper.

Input (INP) - Assesses ability of system to edit input and either provide error notification or begin the required processing.

Report (RPT) - Verifies that the system generates the required hard copy report.

Response (RSP) - Verifies that the system provides the proper response such as updating the database and providing output to the appropriate interface.

Observe (OBS) - Verifies that established procedures identified in the respective test case are carried out.

Inspection (INS) - Verifies through visual examination of vendor documentation or through analysis data, such as trade studies, that the technical or functional requirements have been satisfied by a Commercial-Off-the-Shelf (COTS) product.

#### **4.4 TEST SUBCLASSES**

Test subclasses define the extent of testing of the test class, the types of subclass testing are listed below.

Nominal (NOM) - Verification of normal functions using nominal inputs.

Boundary (BND) - Verification of normal function with minimum/maximum input values.

Erroneous (ERR) - These types of tests include invalid inputs from external sources such as invalid transactions or out of range values contained in valid transactions or other system operator inputs.

Not Applicable (N/A) - Used when verification method does not involve a test or demonstration.

#### **4.5 VERIFICATION CROSS REFERENCE MATRIX (VCRM)**

The VCRM shown below contains the general (high level) requirements from Section 3. The specification paragraph is also shown along with the testing class and subclass for each requirement.

These requirements will be decomposed further into detailed requirements and allocated to test cases in the Test Plan. These detailed requirements will also be loaded into the Configuration Management (CM) Tools System, Requirements Tracking Table. This insures that all requirements are assigned to the proper software module or unit and also provides the traceability from the requirement to the Test Case.



Table 4-1: Verification Cross Reference Matrix.

| Para.   | General Requirements Summary                        | Test Class    | Test Subclass |
|---------|---|---------------|---------------|
| 3.1     | IMRAS GENERAL REQUIREMENTS                          | INS           | N/A           |
| 3.2     | IMRAS INTERFACE REQUIREMENTS                        |               |               |
| 3.2.1   | IMRAS External Interface Requirements               | INP, RSP      | NOM, ERR      |
| 3.2.2   | IMRAS Internal Interface Requirements               | INS           | N/A           |
| 3.3     | IMRAS CAPABILITY REQUIREMENTS                       |               |               |
| 3.3.1   | Session Defaults                                    | INP, DIS      | NOM           |
|         | Input Error   | INP           | ERR           |
| 3.3.2   | PERSONNEL PLANNING APPLICATION                      | INP, DIS      | NOM, ERR      |
|         | Create New Document                                 | INP, DIS, RSP | NOM, BND      |
| 3.3.3   | PERSONNEL DATA APPLICATION                          |               |               |
| 3.3.3.1 | Individual Mobilization Augmentee (IMA) Application | INP, DIS      | NOM, ERR      |
| 3.3.3.2 | Retirees  | INP, DIS      | NOM, ERR      |
| 3.3.3.3 | Individual Ready Reserve (IRR)                      | INP, DIS      | NOM, ERR      |
| 3.3.3.4 | Delayed Entry Program (DEP)                         | INP, DIS      | NOM, ERR      |
| 3.3.3.5 | Overhead Accounts                                   | INP, DIS      | NOM, ERR      |
| 3.3.3.6 | Critical Specialties                                | INP, DIS      | NOM, ERR      |
|         | Add, Delete, Modify Data                            | INP, DIS, RSP | NOM, BND, ERR |
| 3.3.3.7 | Demographics  | INP, DIS      | NOM, ERR      |
| 3.3.3.8 | Unit Manning  | INP, DIS      | NOM, ERR      |
| 3.3.4   | SITUATION MONITORING                                |               |               |

| Para.   | General Requirements Summary         | Test Class    | Test Subclass |
|---------|--------------------------------------|---------------|---------------|
| 3.3.4.1 | Personnel Mobilization               | INP, DIS      | NOM, ERR      |
|         | Modify Data                          | INP, DIS, RSP | NOM, BND, ERR |
| 3.3.4.2 | Personnel Deployment                 | INP, DIS      | NOM, ERR      |
|         | Launch JPAV                          | INP, DIS      | NOM, ERR      |
| 3.3.4.3 | Sustainment Operations               | INP, DIS      | NOM, ERR      |
| 3.3.4.4 | SITREP and CASREP Data               | INP, DIS      | NOM           |
|         | Update Data                          | INP, DIS, RSP | NOM, BND, ERR |
| 3.3.5   | JOINT MANPOWER MONITORING CAPABILITY |               |               |
| 3.3.5.1 | JTD Status                           | INP, DIS      | NOM, ERR      |
| 3.3.5.2 | JTMD Status                          | INP, DIS      | NOM, ERR      |
| 3.3.6   | TOOLS                                |               |               |
| 3.3.6.1 | COA Analysis (TBD)                   |               |               |
| 3.3.6.2 | Import/Export TPFDDs and SRFs (TBD)  |               |               |
| 3.3.7   | UTILITIES (TBD)                      |               |               |

**SECTION 5 - NOTES****5.1 TERMS, ABBREVIATIONS, AND ACRONYMS**

|          |   |
|----------|---|
| ASI      | Additional Skill Identifier                                   |
| BND      | Boundary  |
| C-Day    | Deployment Operation Commencement Day                         |
| C-Level  | Product Specification Level                                   |
| CASREP   | Casualty Report   |
| CD       | Compact Disc  |
| CINC     | Commander-in-Chief  |
| CM       | Configuration Management                                      |
| CMDS     | Command Manpower Data System                                  |
| COMPES   | Contingency Operations/Mobility Planning and Execution System |
| CONUS    | Continental United States                                     |
| COTS     | Commercial-Off-The-Shelf                                      |
| DEP      | Dependents  |
| DII      | Defense Information Infrastructure                            |
| DIS      | Display   |
| DISA     | Defense Information Systems Agency                            |
| DMDC     | Defense Manpower Data Center                                  |
| DOD      | Department of Defense   |
| ERR      | Erroneous   |
| GCCS     | Global Command and Control System                             |
| GTN-ITV  | Global Transportation Network - In Transit Visibility System  |
| IMA      | Individual Mobilization Augmentee                             |
| IMRAS    | Individual Manpower Requirements and Availability System      |
| INP      | Input   |
| INS      | Inspection  |
| IRR      | Individual Ready Reserve                                      |
| IRS      | Interface Requirements Specification                          |
| JOPES    | Joint Operation Planning and Execution System                 |
| JOPESREP | JOPES Report  |
| JPAV     | Joint Personnel Asset Visibility                              |
| JRS      | Joint Reporting System  |
| JTD      | Joint Table of Distribution                                   |
| JTMD     | Joint Table of Mobilization Distribution                      |

---

|                  |   |
|------------------|---|
| LAD .....        | Unit Latest Arrival Date                          |
| LDM .....        | Logical Data Model                                |
| MAILDISTCH ..... | Mail Distribution Scheme Change                   |
| MEPES .....      | Medical Planning and Execution System             |
| N/A .....        | Not Applicable                                    |
| NCPDS .....      | Navy Civilian Personnel Data System               |
| NES .....        | Navy Enlisted System                              |
| NMDAS .....      | Navy Manpower Data Accounting System              |
| NOM .....        | Nominal   |
| NPG .....        | Non-unit Personnel Generator                      |
| NRP .....        | Non-unit Related Personnel                        |
| OBS .....        | Observe   |
| OPINS .....      | Officer Personnel Information System              |
| OPLAN .....      | Operation Plan                                    |
| OSD .....        | Officer of the Secretary of Defense               |
| PAL .....        | Personnel Allowance System                        |
| PERLOSS .....    | Personnel Loss                                    |
| PERSTAT .....    | Personnel Status Report                           |
| PMIS .....       | Personnel Management Information System           |
| POD .....        | Port of Debarkation                               |
| POSTREQ .....    | Military Postal Facility Request                  |
| REMMPS .....     | Reserve Manpower Management and Pay System        |
| ROTC .....       | Reserve Officer Training Corp                     |
| RPT .....        | Report  |
| RSP .....        | Response  |
| RTS .....        | Requirements Traceability System                  |
| SIDPERS-3 .....  | Standard Installation/Division Personnel System-3 |
| SITREP .....     | Situation Report                                  |
| SRA .....        | Systems Research and Applications Corporation     |
| SRS .....        | Software Requirements Specification               |
| T/MR .....       | Table of Manpower Requirements                    |
| TAPDB .....      | Total Army Personnel Data Base                    |
| TPFDD .....      | Time-Phased Force and Deployment Data             |
| UD/MIPS .....    | Unit Diary/Marine Integrated Personnel System     |
| UIC .....        | Unit Identification Code                          |
| USMTF .....      | United States Message Text Format                 |
| VCRM .....       | Verification Cross Reference Matrix               |

---

WKC ..... Work Center  
WWMCCS ..... World Wide Military Command and Control System